

· URBANSKIY

POLAND/Organic Chemistry, Synthetic Organic Chemistry.

E-2

Abs Jour: Ref Zhur-Khimiya No 6, 1957, 19076.

Author : Urbanskiy T., Shchitzinskiy B.

Inst

: Acetylation of bis-(2-oxymethyl-2-nitro)butylamine. Title

Orig Pub: Byul. Pol'skoiy AN. 1956, Otd. 3,4, No 4, 221-222

Through acetylation by means of (CH3CO)201H CH2C Abstract:

(HO2)(CH2OH)CH2CH3 2 (I) obtained previously at the hydrolysis of 5-ethyl-5-nitro-3-(2-oxymethyl-2-nitrobuty1)-tetrahydro-1,3-oxazine (II) (J. Amer. Chem. Soc., 1947, 69,924), a triacetyl derivative of I, (III)

is obtained; at the hydrolysis of III in an aqueous sol. of NaOH in the presence of acctone at 0° according to the method described before (J.Amer. Chem. Soc., 1936, 58, 490), all the acetyl groups are saponified. On the aqueous sol. I HCl act CH3COONA (IV) (heating

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POLAND/Organic Chemistry, Synthetic Organic Chemistry

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Abs Jour: Ref Zhur-ichimiya No 6, 1957, 19076

several minutes), and $(CH_3CO)_2O$ in an aqueous medium in the presence of IV (with the purpose to obtain N-acetyl derivative of I); II is obtained; it indicates the easy formation of tetrahydro-1,3-oxazine ring. 0.011 mole I HCl (m.p. 182-1840) is mixed with 0.076 mole $(CH_3CO)_2O$ and 15cc pyridine at $\sim 20^\circ$. After 22 hours ($\sim 20^\circ$) 20 cc of water is added; yield III 80%, m.p. $68-69^\circ$ (from alcohol).

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Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26789.

: Trbanskiy, T.; Skovronskaya-Serafin, B. : Academy of Sciences of Poland. Author

Inst

Title Reactions of Aromatic Amines with Cyano-

guanidine. Reactions of Phenylic Amidino-Carbamides and Their Derivatives with 2-Amino-

pyridine.

Orig Pub: Byul. Pol'skoy AN, 1956, Otd. 3,4, No. 6,

351 - 352.

Abstract: With a view to continue earlier works (see RZh-

Khim, 1954, 25227; 1956, 800), the reactions of n-RC6H4NHCONHC(=NH)NH2.HX (I), where R H (Ia) and $R = NO_2$ (Ib), with 2-aminopyridine (II) were studied. 1 g of Ib (X = C1) is mixed with

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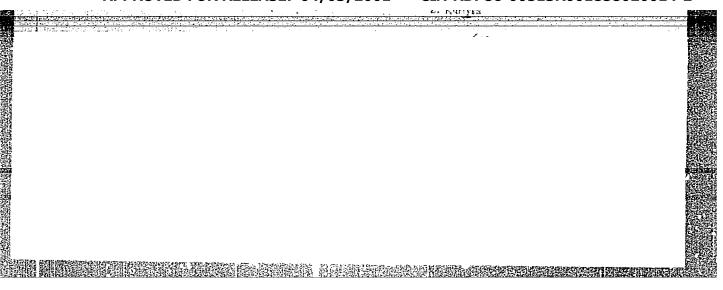
POLAND/Organic Chemistry. Synthetic Organic Chemistry.

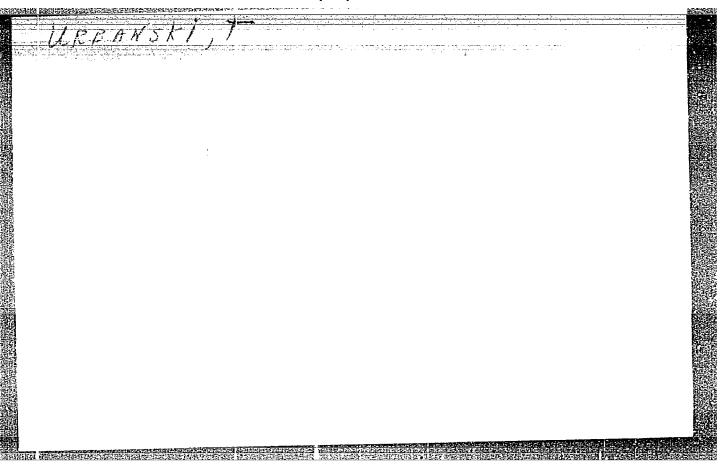
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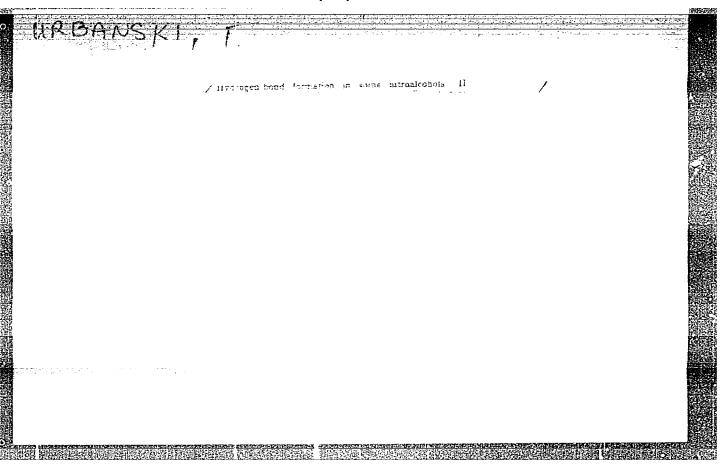
Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26789.

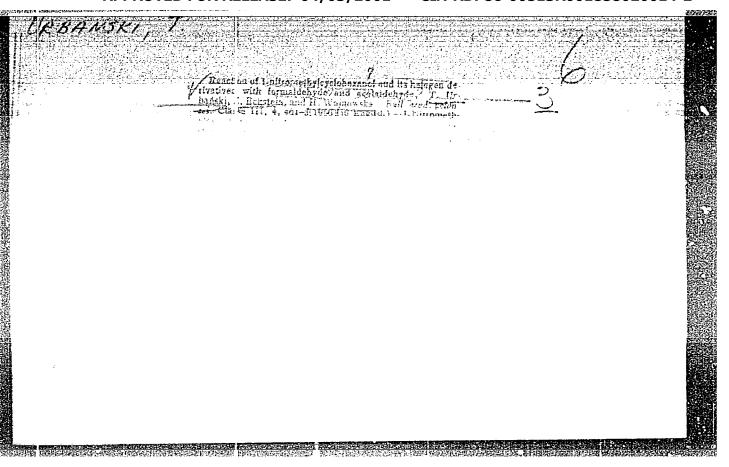
2 g of melted II and heated (1 to 2 min.) until the solution becomes transparent, N-(n-nitro-phenyl)-N°-(pyridine-2)-urea (III), yield 66%, softening point 242° (from Ch400H), sublimated at 247°, and pyerate, melting point 197 - 199° (dissociates, from alcohol) are separated by cooling. n-Nitroaniline (IV) and di-N,N'- (pyridine-2)-urea (V), melting point 172 - 174°, were produced by heating III with II further. Ia (X=NO₃) with II produces guanidine and N-phenyl-N°-(pyridyl-2)-urea (VI) when heated, yield 50%; V is not produced by prolonged heating. About 53% of IV and a little amount of V were obtained by heating VI.HCl 5 minutes with II.

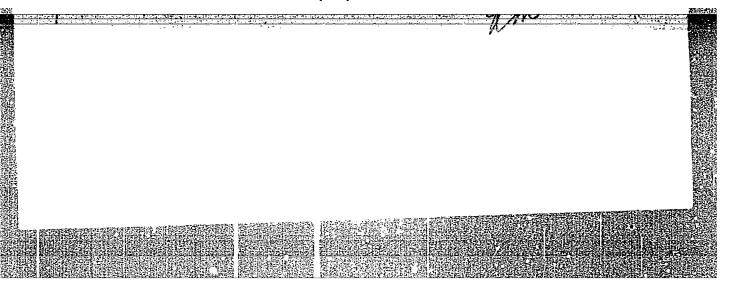
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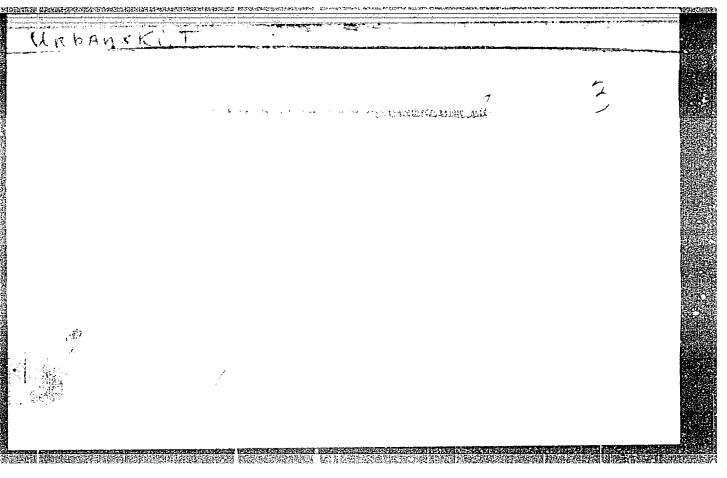


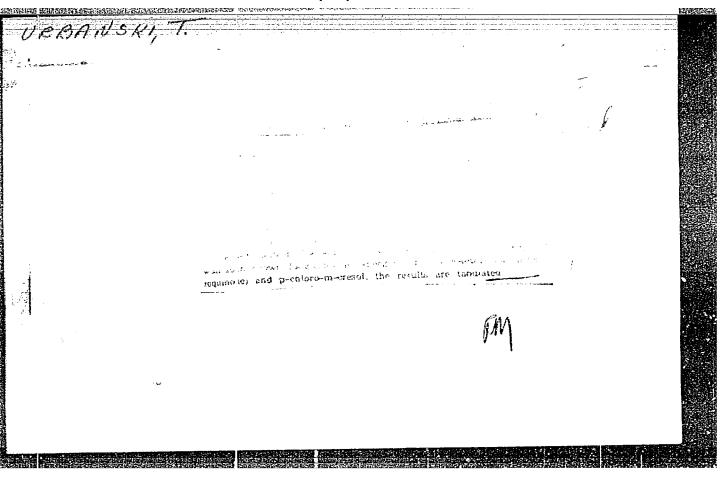


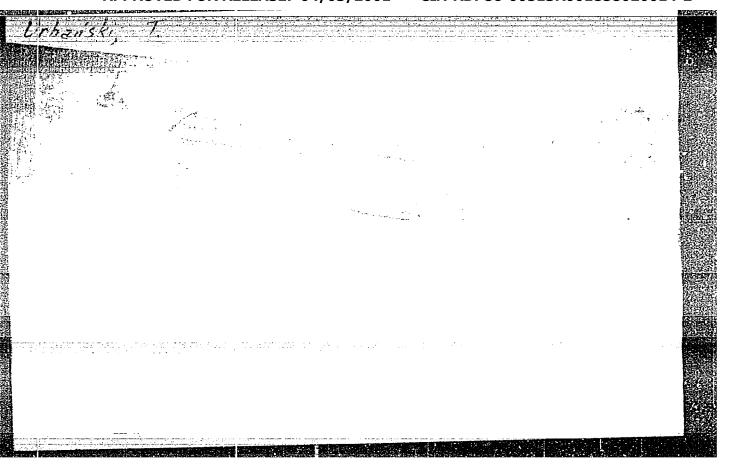












URBANSKÍ, T.

URBANSKI, T.

2d Congress of Hungarian Chemists in Budapest.

p. 164 (Wiadomosci Chemiczne) Vol. 10, no. 3, Mar. 1956, Wroclaw, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (BEAI) LC, VOL. 7, NO. 1, JAN. 1958

URBANSKI, T.

Lith InternationallCongress of Pure and Applied Chemistry and 18th Conference of the Internation Union of Pure and Applied Chemistry. Zurich, 1955.

P. 24 (Przeglad Chimicany, Vol. 12, no. 1, Jan. 1956, Warszawa, Poland)

Monthly Index of East European Accessions (FFAI) LC. Vol. 7, no. 2, Februa y 1958

URBANSKI, T.

URBANSKI, T. Symposium on macromolecular chemistry. p. 136

Vol. 12, no. 3, Mar. 1956 PRZEMYSL CHEMICZNY TECHNOLOGY Warssawa, Poland

So: East European Accession Vol. 6, mo. 2, 1957

URBANSKI, T.

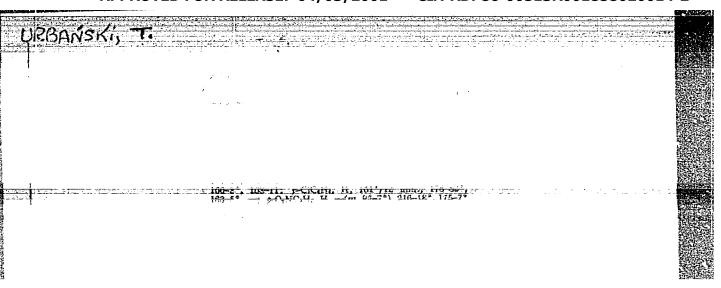
URBANSKI, T. Frogress in the chemistry and technology of polymers. p. 488.

Vol. 12, no. 9, Sept. 1956

PRZEMYSL CHEMICZNY
PHILOSOPHY & PELIGION

SO: East European Accession, Vol. 6, March 1957

Warszawa, Foland



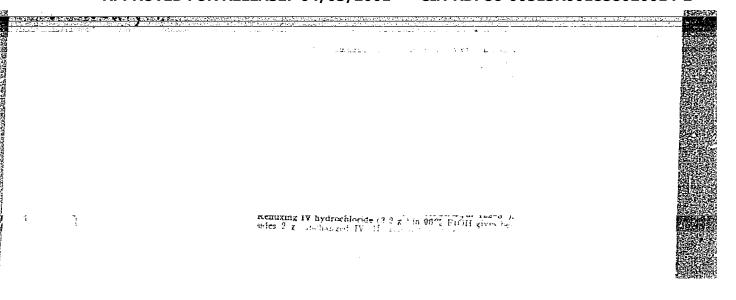
URBANSKI, Tadeusz
URBANSKI, T

Tadeusz Urbanski, and Barbara Gac-Chylinska: "On Derivatives of 1,3-Oxazine. XIII. Preparation and Properties of 3-Benzyl-4,4,6-Trimethyltetrahydro-1,3-Oxazine,"

Roczniki Chemii, Vol 30, No 1, Warsaw, 1956. Published from the Chair of Organic Technology, II, Warsaw Polytechnic, and the Workshop for Drug Synthesis of the Tuberculosis Institute, Warsaw, 21 Jun 55.

Zygrant Sekstein, Wieslaw Sobotka and Tadensz Urbanski: "On Alighetic Mitrocompounds, XX. Reactions of Mitro-Clefins. II. On Derivatives of 5-Mitro-1-(1-)-endokrami).

-Tetrahydro-1,3-Wazako, "Moczniki Chemi, Vol 30, No 1, Largou, Hebbioked from the Research Laboratory of Organic Synthesis of the reliab Academ of Sciences in Warsau, and the Ossir of Organic Technology II, Warsau Folytechnic, 3 Tec. 51.



"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858020014-2

PGLIND / Organic Chomistry. Synthotic Organic Chomistry G-2

: Rof Zhur - Khim., No 10, 1958, No 32371 bs Jour

: Czoslaw Belzocki, Tadousz Urbanski Luthor

Inst

Titlo

: Thiosomicarbazonos of Koto Acids. I. X, B-Thiosomicarbazones of .coteacetic ester and Its Conversions.

Orig Pub : Roczn. chom., 1956, 30, No 3, 781-787

ibstract

: The reaction of CH₃COC(=NOH)COOC₂H₅ (I) with NH₂NHCSNH₂ (II) was studied. 0.3 mole of NaNo₂ in 30 mlit of water is added to 0.3 melo of CH3COCH2COOC2H5 in 60 mlit of glacial CH3COOH at a temperature below 100 in 3 hours' time stirring it continuously, the mixture is diluted with 300 mlit of water and extracted with ester; I is obtained, the yield of the raw I is 15 g, it explodes if distillated in vacue. Thiosomicarbazono of I (IV) is synthetized similarly of CH3C(=NNHCSNH2)-CH2COOC2H5 (III) (obtained at a yield of 83%, molting point

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POLAND / Organic Chomistry. Synthetic Organic Chomistry. G-2

Abs Jour : Ref Zhur - Khim., No 10, 1958, No 32371

94 to 95°), yield 30%, molting point 161 to 162° (dissociatos, from alcohol and water); IV is obtained also of I and II (0.1 molo of each) in 100 mlit of hot water at a yield of 95%.

III reacting with NH3 cyclizes into CH3C=NN(CSNH2)COCH2 (V), yield 68%. O.1 molo of IV is dissolved in concentrated NH4CH at 40 to 50°, cooled to 0°, the precipitate is dissolved in 200 mlit of water at about 40°, acidified with dilute HCl, and CH3C=NN(CSNH2)COC=NOH (VI) is obtained, yield 59%, molting point 180 to 182° (dissociates, from alcohol); VI is obtained also at the mitrosation of V with a yield of 30% (see synthesis of I). O.1 mole of I is added to the solution of 0.2 mole of II in 40 mlit of 25%-ual H2SO4+250 mlit of water, the mixture is heated 1 hour (bath temperature = 100°), cooled, filtered, and the precipitate is extracted with het water and, after that, with alcohol,

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POL.ND / Organic Chomistry. Synthotic Organic Chomistry. .bs Jour Rof Zhur - Khim., No 10, 1958, No 32371 G-2 CH3C=NN(CSNH2)COC=NNHCSNH2 (VII) is obtained, yield 28%, molting point 208° (dissociates, from CH3CONHCH3water); VII is obtained in the similar way at the hydrolysis and cyclization of IV or at the hydrolisis of VI in the presence of equimolar amounts of II; yield 22 and 49%. Card 3/3 5

CIA-RDP86-00513R001858020014-2" **APPROVED FOR RELEASE: 04/03/2001**

URBANSKI, T.

POLAND/Organic Chemistry. Synthetic Organic Chemistry.

G-2

Abs Jour: Raferat Zhur-Khimiya, No 4, 1958, 11271.

Author : Urbanski, T., Falecki, J., and Halski, L.

Title

: Synthesis of the Disulfide of Bis-(2,2'-carbomethoxyphenyl) by the Oxidation of Methyl Ester of 2-Mercaptobenzoic Acid in the Presence of Hydroxyl-amine.

Orig Pub: Roczniki Chem, 30, No 3, 969-972 (1956) (in Polish with

Abstract: Research on the synthesis of 2-mercaptobenzene hydroximic acid has shown that the methyl ester of 2-mercaptobenzoic acid (I) does not react with hydroxylarine (II) in alcohol and water and on reaction with anhydrous II forms the disulfide of bis-(2,2'-carbomethoxyphenyl) (III). Preparation: 1.10 gms II and 1.21 gms I are allowed to stand

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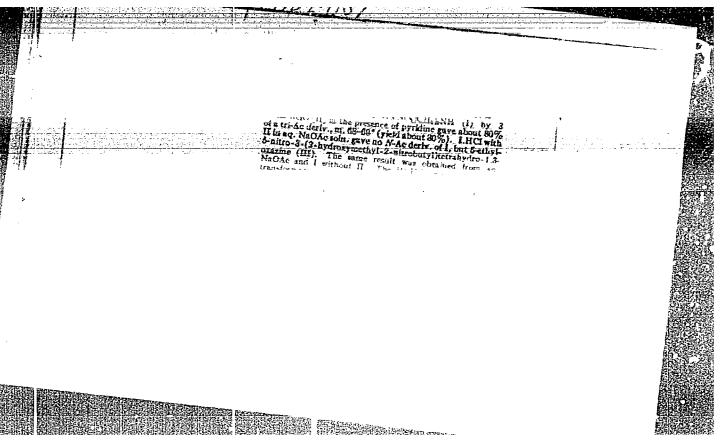
POLAND/Organic Chemistry. Synthetic Organic Chemistry.

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Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11271.

for 48 hrs for 28-34°, the solution is filtered, and washed with alcohol. The yield of III is 32.3%, mp 131-134°,

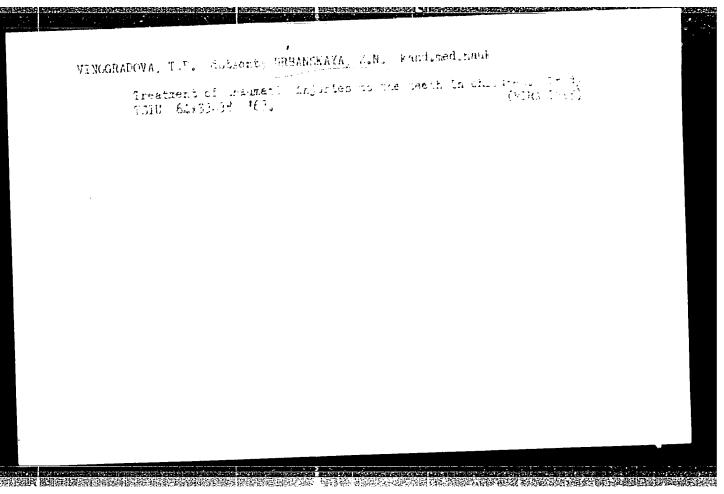
Card : 2/2



URBANSKAYA, Z.N., starshiy nauchnyy sotrudnik

Modifications in the manufacture of protective plates from styreneacryl. Stomatologiia 39 no.1:71 Ja-F '60. (MIRA 14:11)

1. Iz kafedry chelyustno-litsevoy khirurgii (zav. - prof. N.M. Mikhel'son) TSentral'nogo instituta usovershenstvovaniyn vrachey (dir. M.D.Kovrigina) i TSentral'nogo instituta travmatologii i ortopedii (dir. - prof. N.N.Prirov). (DENTAL PROSTHESIS)



G-2

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POLAND / Organic Chemistry. Synthetic Organic Chemistry

Mos Jour: Ref. Zhur - Khimiya, No 3, 1958, 7880

: I. Eckstein, Urbanski, Wojnowska. II. Eckstein, Kraczkiewicz, Urbanski, Wojnowska Author

: Endo- and Exo-isomers of Nitroolefins (1-cyclohexenyl- and : Not given Inst cyclohexylidenenitromethane). Title

Orig Pub: Bull. Acad. polon. sci., 1957, Cl, 3,5,No. 2, 219-222, No 3,

Abstract: I. Cyclohexene-l-ylnitromethane (II), n²⁰D 1.4856-1.4875, d201.0733-1.0788 is formed when 1-nitromethyl-1-oxycyclohexane (I) is dehydrated by use of POCL3, SOCL2 or pyridine. II is also produced in the condensation of nitromethane with cyclohexanone in the presence of basic catalysts. Heating I

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URBANUSKI, L

POLAND / Organic Chemistry. Synthetic Organic Chemistry

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'Abs Jour : Ref. Zhur - Khimiya, No 3, 1958, 7880

: I. Eckstein, Urbanski, Wojnowska. II. Eckstein, Krac $_{\mathrm{Z}}$ kiewicz, Author Urbanski, Wojnowska

Inst : Not given

: Endo- and Exo-isomers of Nitroclefins (1-cyclohexenyl- and Title cyclohexylidenenitromethane).

Orig Pub: Bull. Acad. polon. sci., 1957, Cl., 3,5,No. 2, 219-222, No 3,

Abstract: I. Cyclohexene-l-ylnitromethane (II), n²⁰D 1.4856-1.4875, d²⁰1.0733-1.0788 is formed when 1-nitromethyl-1-oxycyclohexane (I) is dehydrated by use of POCl₃, SOCl₂ or pyridine. II is also produced in the condensation of nitromethane with cyclohexanone in the presence of basic catalysts. Heating I

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POLAND / Organic Chemistry. Synthetic Organic Chemistry

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-Abs Jour : Ref. Zhur. Khimiya, No 3, 1958, 7880

Abstract: acetate does not produce II, but rather an isomeric nitroclefin which is either cyclohexylidenenitromethane (III) or a mixture of II and III. It is possible that in the presence of bases III easily isomerizes into II; this explains the formation of the selfsame 2-nitro-2-(cyclohexene-1-yl)-propandiol-1,3 (LV) when II and III condense with CH₂O in the presence of (C₂H₅)₃N in dioxane. IV reacts with C6H₅CHO to yield 2-phenyl-5-nitro-5-(cyclohexene-1-yl)- dioxane-1,3. The interaction of III with n-chlorobenzal dehyde gives rise to 2-nitro-2-(cyclohexene-1-yl)-1-n-chlorophenylethylene. Unlike II which is easily brominated to 1.2-dibromo-1-nitromethylcyclohexane, III does not react with Br₂.

II. The infra-red spectra of II and III were studied and it was shown that I acetate (see communication I) gives rise to a mixture of 10% of II and 90% of III

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 URBANSKI, Boleslaw

Electric motors in sound-recording and reproducing equipment. (To be contd.) p. 1

BIULETYN TECHNICZNY. Warszawa, Poland. Vol. 2, no. 1/2, January/June 1957

Monthly list of East European Accession (FFAI) LC, Vol. 8, no. 7, July 1959

Uncl.

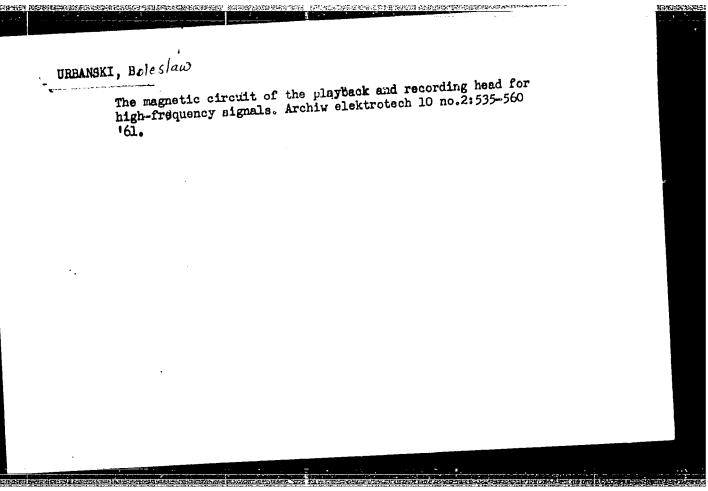
URBANSKI, Beleslaw

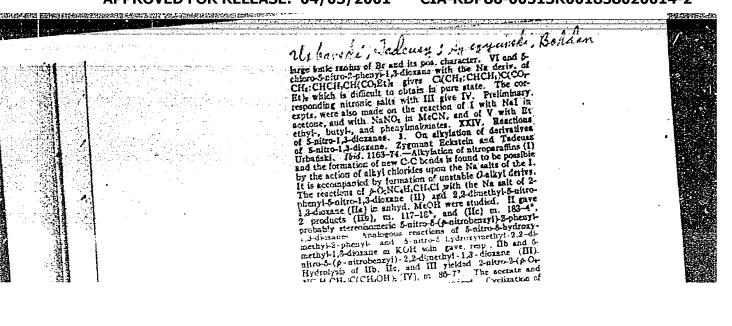
Problems connected with magnetic recording on low-speed tapes. p. 12.

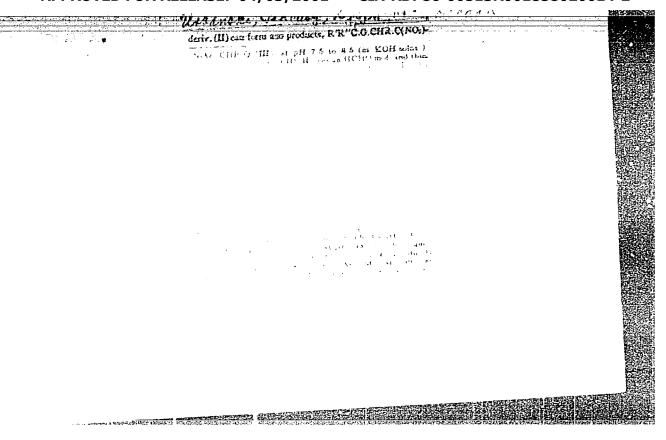
BIULETYN TECHNICZNY. Warszawa, Poland. Vol. 2, no. 1, January/June 1957

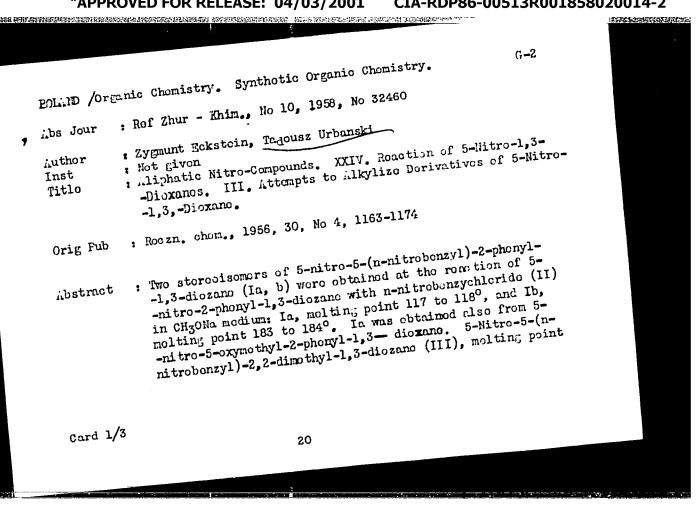
Monthly list of East European Accession (EEAI) LC, Vol. 8, no.77, July 1959

Uncl.









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G-2POLIND / Organic Chemistry. Synthetic Organic Chemistry. : RZhKhim., No 10, 1958, No 32460

197 to 1980, was obtained similarly at thereaction of 5--nitro-2,2-dimothyl-1,3-dioxano or 5-nitro-5-oxymothyl--2,2-dimothyl-1,3-dioxano with II and CH30Na. 2-Nitro-2--(n-nitrobonzyl)-1,3-propandiol, molting point 86 to 87°, (IV) was obtained by the hydrolysis of Ia, Ib and III in alcohol-aquoous HCl. 2-Nitro-2-(n-nitrobonzyl)-1,3-diacotoxypropano was obtained in the result of the reaction of IV with (CH3CO)20 in dry NC6H5, molting point 94 to 94.50. 2-nitro-2-(n-nitrobonzyl)-1,3-di-(n-nitrobonzoyloxy)-propano was obtained from III at the reaction with the chloranhydrido of n-nitrobonzoic acid in dry NC5H5, molting point 187 to 1880. A product with the molting point at 196.5 to 1980 and identical to substances obtained at the reaction with III is obtained at the reaction of IV with acotone in CHCl3 and in the presence of one drop of concontrated H2SO4. The product obtained at the reaction of

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POLAND / Organic Chemistry. Synthotic Organic Chomistry.

G-2

Abs Jour : RZhKhim., No 10, 1958, No 32460

III with C₆H₅CHO, molting point 134 to 185°, did not show any depression of the molting temperature with Ib. 5-Nitro-5-(n-nitrobenzyl)=3-benzyltetrahydroexazino-1,3 (V), molting point 138.5 to 139°, was obtained at the reaction of III with CH₂O and benzylamino. The same compound was obtained at the reaction of III with M-exymethylbenzylamine. The medium of products of V hydrolysis was identified as CH₂O and chlorohydrate of 2-nitro-2-(n-nitrobenzyl)-3-(N-benzyl) propanelamine (VI), molting point 152 to 153° (dissociates); the base, melting point 112 to 114°. See report XXIII in RZhKhim, 1958, 7958.

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POLMND / Organic Chomistry. Synthetic Organic Chemistry.

G-2

abs Jour : RZhKhim., No 10, 1958, No 32461

aquoous-alcohol modium in the presence of KOH confirm this observation. 23 compounds of the type R"R*COCHRC(NO2)(N=2MR*")CHRO were obtained. Identical compounds were obtained, when derivatives of 5-nitro-5-oxymethyl-1,3-dioxane were used for the combination reaction. These crystalline compounds are colored from yellow to bright red. In the cases pounds are colored from yellow to bright red. In the cases of 5-nitro-5-(A-chlorebenzeneazo)-2-phonyl-1,3-dioxane, of 5-nitro-5-(A-chlorebenzeneazo)-2-phonyl-1,3-dioxane and 5-nitro-5-(A-nitrobenzeneazo)-2,2,4,6-tetramethyl-1,3-dioxane, two isomers of each compound were obtained, the isomers differ by melting points and crystallographic structure. 5-Nitro-5-(arylazo)-2,2-dimethyl-1,3-dioxanes hydrolyzed in aquous-5-(arylazo)-2,2-dimethyl-1,3-dioxanes hydrolyzed in aquous-alcohol HCl produce acotone and 2-nitro-2-(arylazo)-1,3-pro-alcohol HCl produce acotone are subject to conversions panedial (II). Those compounds are subject to conversions

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POLAND / Organic Chemistry. Synthetic Organic Chemistry. G-2

Libs Jour : EZhKhim., No 10, 1958, No 32461

and produce substances with higher melting points when heated in alcohol. The cyclization of II by the action of C₆H₅CHO in the presence of aminoral acid results in cyclic acotals with higher melting points. The derivatives of II are fungicides.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858020014-2 URBANSKI, TADEUSZ G-2 POLAND/Organic Chemistry - Synthetic Organic Chemistry. Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14487. Skowronska-Serafinowa Barbara, Urbanski Tadeusz Reactions of Aromatic Amines with Cyanoguanidine. VII. Author Reactions of Arylamidinecarbamides with Heterocyclic and Inst Title Secondary Aromatic Amines. Orig Pub: Roczn. chem., 1956, 30, No 4, 1189-1196. Abstract: Reaction of C6H5NHCONHC(=NH)NH2.HNO3 (I) with 2-aminopyridine (II) gave N-phenyl-N'=(2-pyridyl)-urea (III),
pyridine (II) gave N-phenyl-N'=(2-pyridyl)-urea
yield 50%, MP 190°. N-(p-nitrophenyl)-N'=(2-pyridyl)-urea
yield 50%, MP 242°, sublimation point 247°) was ob(IV) (yield 66%, MP 242°, sublimation point 247°) was obtained on reacting p-02NC6H4NHCONHC(=NH)NH2.HCL (V) with
tained on reacting with III is converted to N.N'-difused II, IV on heating with III is converted to N, N'-di-Tused 11, 1V on neating with 111 18 conversed to N, N = cli (2-pyridyl)-urea, MP 172-174°. C6H NHCON(CH3)C6H5 (VI) yield 65%, MP 104-105°, was obtained by reacting I with : 1/2 Card

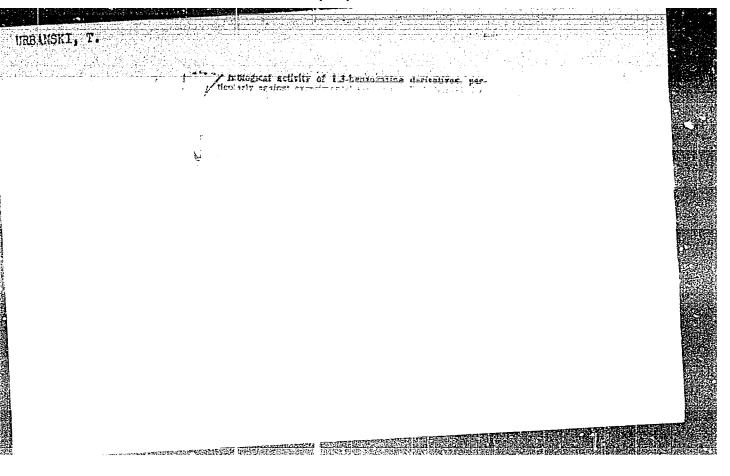
POLAND/Organic Chemistry - Synthetic Organic Chemistry.

G-2

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14487.

methyl aniline (VII). On boiling with aniline VI is converted to carbanilide. From V and VII was obtained N-(p-nitrophenyl)-N'-methyl-N'-phenyl-urea (MP 124-125°, yield 26%) and a small amount of CO (NHC₆H₁NO₂-p)₂. Reaction of aryl-amidine carbanides with II can constitute a convenient method for the synthesis of aryl-2-pyridyl-urea, and the reaction of V with II is applicable for the synthesis of sym-di-(2-pyridyl)-urea. Results of the work confirm the assumption of a radical-mechanism of these reactions. Communication VI see RZhKhim, 1956, 39555.

Card : 2/2



ASTINATION Sec. 2 Vol. 10/10 Phy. Biochem. Oct 57

URBANSKI T., RADZIKOWSKI Cz., LEDÓCHOWSKI Z. and CZARNOCKI W.

Dept. of Chem., Inst. of Technol., Warsaw; Dept. of Pathol, Anat., Med. Acad. and Dept. of Chem., Inst. of Technol., Gdańsk. * Biological activity of benzoxazine-1:3 derivatives, particularly against experimental sarcoma NATURE (Lond.) 1956, 178/4546 (1351-1352) Tables 2

Mice bearing Crocker sarcoma were injected s. c. with 3 derivatives of 1:3-benzoxazine. Ten injections of 1-benzyl-6-bromo-1:3-benzoxazine ('T 335') (II) were given. I induced the least and III the most marked regression in the tumours. The compounds have a rather high toxicity.

Sampey - Greenville, S. C. (II, 5, 16)

Exper- U Tumors. POLAND / General Problems of Pathology. imental Therapy.

Abs Iour: Ref Zhur-Biol., No 11, 1958, 51691.

: Urbanski, T., Radikowski, C., Ledochowski, Z.;
CZarnooki, W.
: Polish Academy of Sciences.

Author

: On the Activity of Benzooxzine-1, 3-Derivatives

Inst Against Experimental Sarcoma. Title

Orig Pub: Bull. Acad. polon. sci., 1957, 2, 5, No 2, 63-65. nitie

Abstract: The opposing action of the following derivatives

of benzooxazine-1, 3 was investigated:

Card 1/3

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POLAND / General Problems of Pathology. Tumors. Exper- U imental Therapy.

Abs Jour: Ref Zhur-Biol., No 11, 1958, 51691.

Abstract:

The preparations were administered subcutaneously one day after 11-12 serial transfers of the sacroma of Crocker, for a period of 2 weeks. The

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APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858020014-2"

Exper- U POLAND / General Problems of Pathology. Tumors. imental Therapy.

'Abs Jour: Ref Zhur-Biol., No 11, 1958, 51691.

Abstract: animals were killed after this period. Upon histological examination of the tumors, fragments with very few undamaged tumor cells were observed, lying among formless nucleated masses. The greatest damage of the tumor cells was caused by T 356. The tumoral growth inhibition index with this preparation was 3.17C. (The index was taken from the tables and is expressed by the ratio: The average weight of the tumor in the experiment. The average weight of the tumor in the controls). A relatively high toxicity of these compounds was noted. -- O. V. Zubova.

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THE COLUMN TRANSPORT OF THE PROPERTY OF THE PR

42

URBANSKI, T.

POLAND/Optics - Spectroscopy

K-7

Abs Jour: Ref Zhur - Fizika, No 4, 1958, No 9472

Author : Urbanski T., Szyc-Lewanska, K.

Inst : Technical Military College, Polish Academy of Sciences, Poland Title : Further Remarks on the Structure of Aniline Black on the Basis

of Infrared Absorption Spectra.

Orig Pub: Bull. Acad. polon. sci., 1957, Cl. 3, 5, No 2, 203-208, XVIII

Abstract: With the aid of infrared abosrption spectra, the authors prove the previously raised hypothesis, that emeraldine, aniline black (permigraniline) in non-green-turning black aniline contain in the molecules a grouping of dianiline quinone. Substances were investigated in the form of suspensions in paraffin oil. The quino-iminic structure of emeraldine and permigraniline and aslo the phenazinic structure of the non-green-

turning black aniline is not confirmed by the infrared spectra.

Card : 1/1

G-2

. URBANSKI, T.

POLAND/Organic Chemistry - Synthetic Organic Chemistry.

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11224.

Author : Eckstein, Z., Sacha, A., and Urbanski, T.

: On the Properties and Preparation of 1-Cycloheptenyl-Inst Title

Micromethane

Orig Pub: Bull Acad Polon Sci, 1957, Cl. 3.5, No 2, 213-218, VIII

(in English with a summary in Russian)

Abstract: Suberone (I) reacts in the presence of piperidine (II)

with nitromethane (III) giving 1-cycloheptenyl-nitromethane (IV). The yield of IV at room temperature after 12 days

is 7.2%, at 50° after 18 days - 14.2%; when I and III (1: 3. ratio) are heated together for 24 hrs in a solution

of C6H6 in the presence of II with the removal of the water which is formed, IV is obtained in yields of 64%, bp which is formed, IV is obtained in yields of 64%, bp 84-85°/1.4-1.6 mm, n²⁰D 1.4896, d²Q 1.0600. The structure

: 1/2 Card

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POLAND/Organic Chemistry! Synthetic Organic Chemistry.

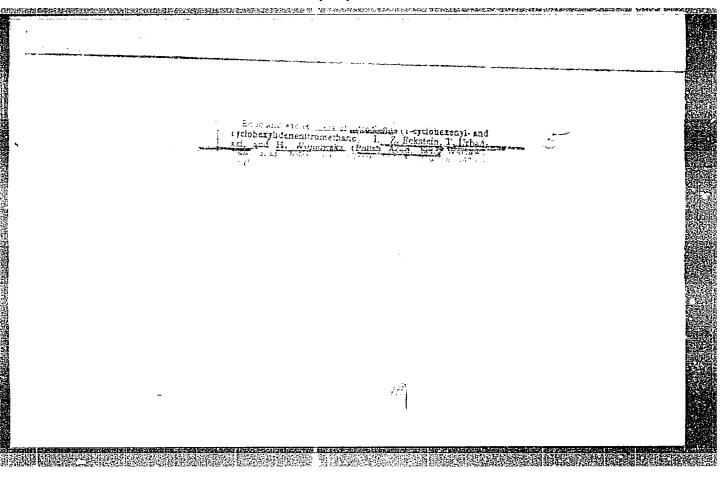
G-2

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11224.

of IV is proved by the IR spectru. Curves giving the IR- and UV-spectra of IV are given.

Card : 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858020014-2"



POLAND/Physical Chemistry. Molecule. Chemical Bond.

B

Abs Jour: Ref Zhur-Khim., No 15, 1958, 49347.

Author : Urbanski T.

: Polish Academy of Sciences. Inst

: ON Infrared Absorption Spectra of Aminonitro-Compounds Title

Derived from Nitroparaffins.

Orig Pub: Dull. Acad. polon. sci., 1957, Cl. 3, 5, No 5,

533-539.

Abstract: Investigation of infrared adsorption spectra of some

anino-nitro-compounds of nitroparaffins (I-V). It was found that derivatives of nitroparaffins containing a secondary amino group yield bands 3077-3030 and 1621-1613 cm-1 corresponding to this group, bonded by hydrogen bond. Tertiary amines

: 1/3 Card

CIA-RDP86-00513R001858020014-2" **APPROVED FOR RELEASE: 04/03/2001**

B

POLAND/Physical Chemistry. Molecule. Chemical Bond.

Abs Jour: Ref Zhur-Khim., No 15, 1958, 49347.

yield bands of the same frequency

I R=H.HCl, II R=CH₁C(C₂H₃)(NO₂)CH₂OH; IV R=C₂H₃; R'=CH₂OH; V R7R'=CH₃

Card : 2/3

3

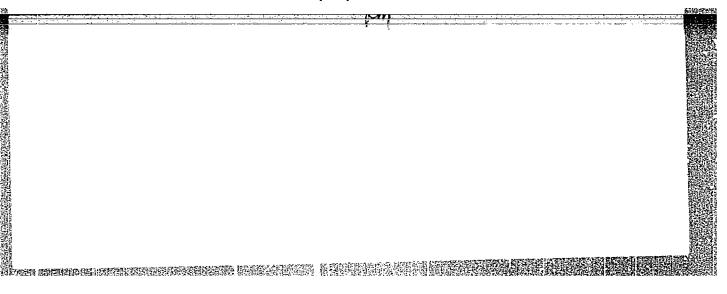
POLAND/Physical Chemistry. Molecule. Chemical Bond.

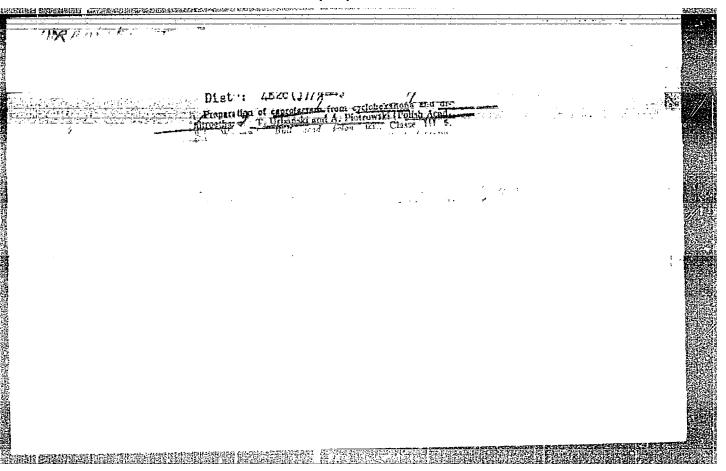
 \mathbf{E}

Abs Jour: Ref Zhur-Khim., No 15, 1958, 49347.

3077-3030 and 1764-1681 cm⁻¹. The nitrogroup yields in most compounds bands in which the wave numbers 1563-1543 and 1348-1328 cm⁻¹ are lowered due to the presence of hydrogen bond between nitro and amino group. Compounds containing heterocyclic ring of 1.3-oxazine or 1-oxa-3-aza-cyclohexane yield 3 bands: 1111, 1953-1934 and 4000-3846 cm⁻¹ which characterize the C - O - C linkage in cyclic ehters. Author's abstract.

Card : 3/3





URBANSKI, T.

PCIAND/Organic Chemistry - Synthetic Organic Chemistry.

G-2

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14418.

Author : Urbanski T., Semenczuk A.
Inst : Polish Academy of Sciences.

Title: On Preparation of N, 2, 4, 6-Tetranitromethylemiline by the

Action of Nitric Acid on Dimethylaniline.

Orig Pub: Bull. Acad. polon. sci., 1957, Cl. 3, 5, No 6, 649-651.

Abstract: N, 2, 4, 6-tetranitromethylaniline (I) was prepared by action

of HNO3 on dimethyl ariline (II) at a retic of HNO3 to II of not less than 35-10: 1. 6 g of II are dissolved in 280 g HNO3 (d 1.10) at 2-70 with vigorous stirring, after 15 minutes (2) heated to 40-500, heating is then discontinued for 30 minutes, until the viclent evolution of nitrogen oxides has subsided, the solution is then heated to 800 and then to 900 for 1 hour after which 50 ml of water (100) are added, and after several hours I is filter-

Card: 1/2

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G-2

The second section is a second second

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14418.

ed off; yield 78%. On nitration of 6 g II with a mixture of 84 g HNO₃ (d 1.40) and 150 g HNO₃ (d 1.51) (4-50), the yield of \underline{I} is 83.1%, MP 129.5.

Card: 2/2

POLAND/Optics - Spectroscopy

K-7

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Abs Jour : Ref Zhur - Fizika, No 3, 1958, No 7059

is missing. In the spectra of V and VI a bend is seen near 270 -- 275 millimicrons. The weakening of the absorption band of the nitro group is due in all probability to the steric influence of the cyclohexane ring on it, and in addition to the existence of a hydrogen bond between the nitro and hydroxyl groups. It is possible that the hydrogen bond is weakened by introducing the halogen into the molecule.

Card : 2/2

urbanski,

POLAND/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3557.

Author : Z. Eckstein, T. Urbanski, W. Sobotka.

: Academy of Sciences of Poland.

: Ultraviolet and Infrared Absorption Spectra of 2,2-Diritropropane-Inst Title

1,3-Diol.

Orig Pub: Bull. Acad. polon. sci., 1957, Cl. 3,5, No 6, 679-684.

Abstract: 2,2-Dinitro-1,3-propanediol (I) in ethyl alcohol solution produces two maxima at about 276 and 363 mm. The first maximum is characteristic of the nitrogroup. We presume, the second maximum is caused by two chromophores (NO groups) combined with two hydroxyl groups. Indeed, should the hydroxyl groups be bound producing a derivative of 1,3-dioxane, then only one maximum at about 279 mm appears in the spectrum. The infrared spectrum of I suspended in paraffin oil does not produce the band specific of the hydroxyl group, and only a weak band at

: 1/2 Card

-32-

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POLAND/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3557.

3174 cm-1 appears in the CCl of solution, which is specific of hydroxyl groups linked with hydrogen bonds. We consider it to be possible that forms could exist, in which both the hydroxyl groups should be linked with the nitrogroup with the hydrogen bond. Three bands were found for the nitrogroup: in crystalline state 1587, 1568 and 1544 cm-1, and in CCl solution = 1568, 1562 and 1527 cm-1. It seems to be probable that the first band belongs to the free nitrogroup, the second - to the "semibound" nitrogroup, and the third - to the "completely bound" nitrogroup.

Card : 2/2

-33-

POLAND/Chemistry of High Molecular Substances.

I

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72865.

acids. Nitrocellulose of lower stability containing 9.5 to 10% of N was produced in liquid media.

Card : 2/2

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URBANSKI, T.

Aliphatic nitro compounds. XXVI. Hydrogen bonds in nitroalcohols and infrared absorption spectra.

P. 37, (Rocznicni Chemii) Vol. 7, No. 1, 1957, Warszawa, Poland.

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. VOL. 7, NO. 1, JAN. 1958

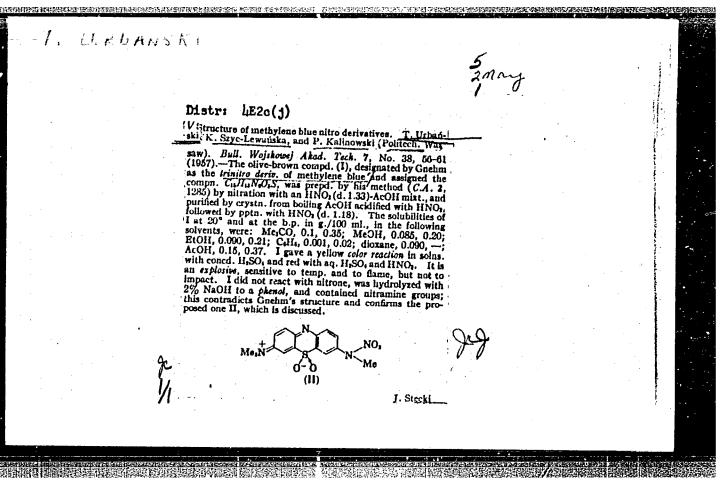
URBANSKI, T. : ECKSTEIN, Z. : WOJNOWSKA, H.

Aliphatic nitro compounds. XXVII. Products of the reaction of 1-nitromethylcyclo-hexanol and its halogen derivatives with aliphatic aldehydes.

P. 93, (Roczniki Chemii) Vol. 7, No. 1, 1957, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EHROPEAN ACCESSIONS (EFAI) LC. VOL. 7, NO. 1, JAN. 7958

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POLAND/Chemical Technology. Chemical Products and Their Applica-

tion - Pesticides. H-18

ANTERNITY ANTERIOR CONTROL OF THE PROPERTY OF

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15568.

Author : Hetnarski B., Eckstein Z., Urbanski T.

Inst

F PENTANDE 1

Title : Chemical Agents for the Control of Fungi. I. Some Deri-

vatives of S-Alkyl-, -Alkoxyalkyl- and -Arylmercury-Substi-

tuted 2-Mercapto-Benzothiazole.

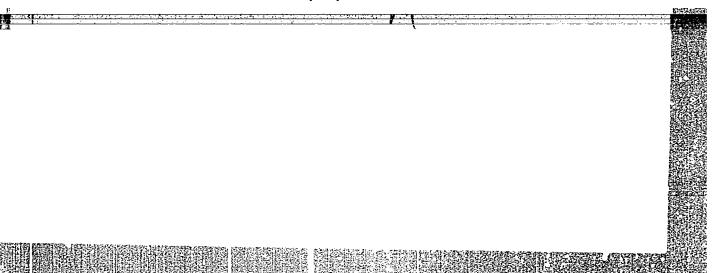
Orig Pub: Przem. chem., 1957, 13, No 5, 291-293.

Abstract: By the action of alkyl-, alkoxyalkyl- and aryl-mercury

halides on the Na-salt of 2-mercapto-benzothiazole (I) derivatives of I were perepared which contain the SHgR-group in 2-position, and exhibit high fungicidal activity. Listing the R, yield in \$, MP in C, concentrations inhibiting growth of Fusarium culmorum, Alternaria tenuis and

Card: 1/2

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POIAND/Physical Chemistry. Molecule. Chemical Bond.

Abs Jour: Ref Zhur-Khim., No 1, 1959, 183.

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Author : Urbanski T.

Inst

Title : Aliphatic Nitro Compounds. XXVI. Hydrogen Bonds in

Nitro Alcohols as Investigated by Absorption

Spectra in the Infra-Red Region.

Orig Pub: Roczn. chem., 1957, 31, No 1, 37-57.

Abstract: According to the author's hypothesis (R. Zh. Khim.,

1958, 1222), based mainly on studies of absorption spectra in the UV region, intramolecular hydrogen bonds (HB) exist between a nitro group (NG) and alcohol groups (AG) which originate with the

formation of 6-membered inner complex rings. This hypothesis is verified by the investigation of

Card: 1/3

POLAND/Physical Chemistry. Molecule. Chemical Bond.

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Abs Jour: Ref Zhur-Khim., No 1, 1959, 183.

3. The bands 1567 and 1340-1361 cm. pertaining to NG are displaced to 1543 - 1555 and 1310-1319 cm., and become weak and broad if the two AG present in the molecule are capable of forming sex-membered rings with N.G.

4. The C-H bond of carbon with an active hydrogen in II produces an absorption band at 3704 or 4167 cm.

, depending upon the structure of the compound.

5. The very weak absorption lines in the neighborhood of 7000 cm. probably belong to AG with HB.

For communication XXV see R. Zh. Khim., 1958, 32461.

H. Baranska.

Card : 3/3

POLAND / Organic Chemistry. Synthesis.

G-2

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 8216.

: Urbanski, Tadousz, Eckstein, Zygmunt, Wojnowska, Luthor

Halina.

: Not given. Inst

: ..liphatic Nitrocompounds. XXVII. Products of Title

the Reaction of 1-Nitromethyl-Cyclohexanol and

of Its Halogen-Derivatives with Alighatic Alde-

hydes.

Orig Pub: Roczn. chem., 1957, 31, No 1, 93-100.

Abstract: It is shown that 1-nitromethyl-cyclohoxanol (I),

1-chloronitro-methy-cyclohexanol (II) and 1bromonitromethyl-cyclohexanol (III), form with CH20 and CH3CHO, in the presence of MaOH, cyclohexanore (IV) and nitro-alcohol, which is formed

Card 1/3

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FOLAND / Organic Chemistry. Synthesis.

G-2

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 8216.

Abstract: as a result of condensation of CH3NO2, CH2CINO2 or CH2BrNO2 with the aldehyde utilized. To 8 g I and 15 g 30% CH2O is added dropwise a solution of NaOH until alkaline reaction is attained (temperature rises to 50°) and then allowed to stand for 12 hours. Aqueous solution of NaCl is added, and extracted with ether to get IV and tri-(hydroxymethyl)-nitromethane, yield 79.5%. II and 30% solution of CH2O (molar ratio 1:2) give IV and 2-chlor-2-nitro-propananediol-1,3, yield 62%, PP 119-120° (from benzene). Under the same conditions III gives IV and 2-brom-2-nitropropanediol-1,3, yield 68%, MP 128-129° (from benzene). To 9.7 g II and 5 ml CH3CHO added dropwise 20% NaOH until reaction alkaline, heated 1 hour at

Card 2/3

FOLAND / Organic Chemistry. Synthesis.

G-2

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 8216.

Abstract: 40°, several days later treated with saturated solution of NaCl and extracted with ether to get IV and 3-chlor-3-nitropentanediol-2,4, in 117-118° (from chloroform-CCl₄). From III and CH₃CHO is formed II and 1-brom-1-nitropropanol, EP 780//1.2 mm, n²⁰D 1.4936, d₄²⁰ 1.7162. II is obtained by treating Na-salt of I with Cl2-gas in CHCl3 at 5°, yield 65.5%, BF 103-105°/1 mm. III is synthesized by bromination of Na-salt of $\underline{\mathbf{I}}$ in CHCl3 (temperature from - 5° to / 5°), yield 50%, BP 115-1180/1.2 mm. Communication XXVI see RZhKhim, 1959, 183. -- M. Kowalski.

Card 3/3

79

POLAND/Organic Chemistry. Synthetic Organic Chemistry

Ref Zhur - Khim., No. 4, 1959, 11879 Abs Jour:

Jones J., Kolinski R., Piotrowska H., Urbanski T. Author :

None. Inst

The Aliphatic Nitro Compounds. XXVIII. Derivatives of 1,5-diazobicyclo-23,3,3-7-undicane from Title

1-nitropropane, Formaldehyde and Ammonia.

Orig Pub: Roczn. chem., 1957, 31, No. 1, 101-108

2-nitro-2-ethylpropanediol-1,3 (I), in the Abstract:

presence of an excess aqueous solution of NH3 at a temperature of 25°, produces 3,7,10-trinitro-3,7,10-triethyl-1,5-diazobicyclo-23,3,3--undicane (II) and 5-nitro-5-ethylhexahydropyrimidine. The hydrolysis of II by alcoholic HCl leads to 3,7-dinitro-3,7-diethyldiazocyclo-

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CIA-RDP86-00513R001858020014-2"

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POLAND/Organic Chemistry. Synthetic Organic Chemistry G

Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11879

octane, C2H5C(NO2)CH2NHCH2C(NO2)(C2H5)CH2NHCH2
(III), which on heating with I reproduces II.

The excess of NH3 at 100° is transferred from
I into III, 0.2 mole of I and 1 mole of 25%
I into III, 0.2 mole of I and 1 mole of 25%
NH3 are left for 3 days at about 20°. The tar
is separated, dissolved in alcohol and left for
several weeks - II is produced (yield, 10-30%;
melting point, 107-108°); the mononitroso derivative's melting point is 101-103° (from alcohol). The filtrate, which is treated with
alcoholic HC1, is separated (0°, several days)
from some hydrochlorides of III (melting point,
167-168°); the basic material (melting point,
63-64°); the mono-N-n-toluolsulphonyl derivative
melting point, 138-140° (from alcohol). The
hydrochloride of II (melting point, 143-145°
decomp.) is hydrolyzed by water to I. The condensation of I with 25% NH3 at about 100° leads

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POLAND/Organic Chemistry. Synthetic Organic Chemistry C

Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11879

to III (the hydrochloride's yield, 7.5%) and to II (yield, 1%). The structure of II is substantiated by the separation, during hydrolysis with concentrated HCl (80°, 1 hour), of CH₂O in the form of 2,4-dinitrophenylhydrazone, 1-nitropropane in the form of phenylhydrazone and III in the form of hydrochloride (yield, 67%). The hydrochloride of / HOCH₂C(NO₂)(C₂H₅)CH₂/NH in 25% NH₃ produces II in the cold (yield, 17%) and, at a higher temperature, the hydrochloride of III is obtained mainly (yield, 8%). Report XXVII; see RzhKhim, 1959, 8216. -- M. Kowalski

Card 3/3

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POLAND / Organic Chemistry. Synthetic Organic Chemistry.

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Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61005.

Author : Zygmunt Eckstein, Wieclaw Sobotka, Tadeusz Urbanski.

Inst

: Emplanation to Work "Reactions of Aliphatic Com-Title posmas. XX. Reactions of Nitrolefins. II. Derivatives of 5-Nitro-5-(1-Cyclohexenyl)-Tetrahydro-oxazine-1,3".

Orig Pub: Roczn. chem., 1957, 31, No 1, 347-348.

Abstract: Corrections to the mechanism scheme of ring open-ing reactions of 5-nitrotetrahydrooxazine-1,3 presented in the author's work (RZhKhim, 1957, 37540)

are made.

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POLAND / Organic Chemistry. Synthetic Organic Chemistry G-2

Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57417.

: Urbanski T., Falecki J., Nowak J. Author

: Not given

: Investigation of Hydroxamic Acids. VI. Nitration Inst Title

of Salicylhydroxamic Acid.

Orig Pub: Roczn. chem., 1957, 31, No 2, 517-523.

Abstract: Experiments in obtaining nitrosalicylhydroxamic acid was conducted. Nitration of the salicylhydroxamic acid (I) with nitric acid (d = 1.50) at -50 to 600 temperature leads to the formation of 5-nitrosalicylic acid (II). Action of the HNO3 in ether at a temperature below -100 results in the formation of salicylic acid (III). In (CH3CO)20 a mixture of acids is obtained: II and 3, 5-dinitrosalicylic (IV). Nitration of I with the mixture

Card 1/4

48

POLAND / Organic Chemistry: Synthetic Organic Chemistry G-2 Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57417.

Abstract: of HNO₃ (d = 1.40) and H₂SO₄ (d = 1.84) at 100° gives IV. Nitration of I with HNO₃ at a temperature <67° yields picric acid (V). Mechanism of the reaction is discussed. 10 gr I in 70cc H₂SO₄ (d = 1.84) at approximately 20° and 50cc HNO₃ (d = 1.40) are heated for half an hour on a steam bath. After 12 hours approx. 200cc of water are added drop by drop, followed by the filtration of product and by the addition of saturated Ba(OH)₂ solution. The barium salt is then decomposed by dilute HCl thus yielding 20% of IV that has a melting point of 170-172°. 10 gr I is added in small portions to 40cc of water are added drop by drop and fil-

Card 2/4

POLAND / Organic Chemistry. Synthetic Organic Chemistry G-2 Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57417.

Abstract: tered. Depending on the reaction temperature (5-85°), II, V or their mixtures are obtained. To a suspension of 10 gr I in 100cc of ether a mixture of 40cc KNO3 (d = 1.50) in 100cc of ether is added drop by drop during 4 hours while temperature is maintained at -17°. This is followed by allowing the mixture to stand for 2 hours at -15°. 100cc the mixture to stand for 2 hours at -10°. III of water is then added drop by drop at -10°. III of water is then added drop by drop at -10°. III of water washing and then heating it under ture by water washing and then heating it under vacuum. 40cc HNO3 (d = 1.50) are cooled down to 3° followed by the addition of 10 gr III in small portions at 3-7°. After 12 hours the mixture is diluted with 40cc of water and IV is separated by filtration. The filtrate is neutralized with NaHCO3 and evaporated to dryness. In the subsequent

Card 3/4

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POLAND / Organic Chemistry. Synthetic Organic Chemistry G-2 Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57417.

种类性原因,使用自己的主义,但是不是一个人的主义,但是这种人的主义,是是一个人的主义,是是一个人的人的人的人的人,但是一个人的人的人的人,但是一个人的人的人的人

Abstract: alcohol extraction of the residue, 0.25 gr of V is obtained. To 10cc HNO3 (d = 1.50), 10cc (CH3CO)2O are added drop by drop at 5°. 5 gr of I is then added at 20-30° while the heat of reaction is removed by forced cooling. 10cc of water is added after 10 minutes followed by the filtration of 2.1 gr of a product from which 0.7gr of II and 0.8gr of III are obtained by means of fractional crystallization. When the above reaction is carried out at a temperature ranging from -10° and up to +2°, a substance having 182-184° melting point is obtained. For the preceding parts refer to Ref Zhur-Khimiya, 1956, 46999; 1957, 51216.

Card 4/4

POLAND/Organic Chemistry. Synthetic Organic Chemistry

Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11880

Urbanski T., Piotrowska H. Author :

Not given. Inst

: Aliphatic Nitro Compounds. XXIX. Obtaining Two Interchangeable Derivatives of 5-nitrotetrahydro-Title.

oxazine-1,3.

Orig Pub: Roczn. chem., 1957, 31, No. 2, 553-558

Abstract: At a concentration of 2-nitro-2-oxymethyl-

pentylamine (I) with acetic, propionic, n-butyric, non-interchangeable benzoic, o-chloro-, o- and p-nitrobenzoic aldehydes, there are obtained two interchangeable 5-nitrotetra-hydrooxazine-1,3, RCHOCH₂C(NO₂) (n-C₃H)CH₂NH (II). The reactions should be conducted in absolute alcohol or absolute C6H6. Aromatic

Card 1/3

POLAND/Organic Chemistry. Synthetic Organic Chemistry G

Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11880

aldehydes, in distinction from aliphatic, react easily with a yield of 60-90%. All II form Nnitroso derivatives. The hydrochlorides of II,
on heating with 1.5% HCl in alcohol, hydrolyze
with the formation of I. The following II were
obtained (R, yield in percentages, melting point
in centigrade degrees of the basic material,
hydrochloride, picrate and N-nitroso derivatives:
hydrochloride, picrate and N-nitroso derivatives:
CH3, 5, --, 178-180 (decomp.), 145-146, --; C2H5
(III), 5, --, 182-184 (decomp.), 137-138, --;
(III), 5, --, 174-176, 139-140, --; C6H5, 60,
n-C3H7, 5, --, 174-176, 139-140, --; C6H5, 60,
102, 174-176 (decomp.), --, --, n-C1C6H4, 75,
102, 174-176 (decomp.) --, 109-110; n-HOC6H4,
65, 111-112, 184-186 (decomp.), --, --. Method
A. 3 g of CH CH CHO and a small quantity of 2%
alcoholic KOH are added to 8 g of I in 30 ml of

Card 2/3

11

POLAND/Organic Chemistry. Synthetic Organic Chemistry G

Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11880

absolute alcohol, and the mixture is heated for 2 hours. The residue after distillation of the alcohol is dissolved in ether and saturated with HCl; the hydrochloride of III is obtained. Method B (for aromatic aldehydes). Equimolal quantities of I and aldehyde are dissolved in C6H6 and a small quantity of KHCO3 is added. Water, formed as a result of the reaction, is distilled with C6H6. The precipitate is filtered off, the solution is saturated with HCl, and hydrochlorides are formed. N-nitroso derivatives are obtained by the addition of an aqueous solution of NaNO2 to weakly acidified solutions of the hydrochlorides. All compounds give Liebermann's reaction. -- J. Wolf

Card 3/3

POLAND/Organic Chemistry. Synthetic Organic Chemistry. G

Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11737

Urbanski T., Dombrowska H., Lesiowska B., Piotrowska H. Author

: Not given. Inst

Aliphatic Nitrocompounds, XXX. Products of Title

the Reaction of 1-nitro-n-pentane and 1-nitro-

n-hexane with Formaldehyde and Ammonia or

Primary Amides.

Orig Pub: Roczn. chem., 1937, 31, No.2, 687-694

Abstract: During the heating (after the end of the exo-

thermic reaction) of a mixture of 0.2 mol of 30% HCHO with 0.1 mol of nitro-n-pentane (I) in 20 ml of dioxane and 1 drop of (C₂H₅)₃N at 70-750 for 3 hours, 2-nitro-2-n-butylpropanediol-1,3 (II) is produced (yield, 74%; melting

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POLAND/Organic Chemistry. Synthetic Organic Chemistry G

Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11737

point, 48-49°). Similarly, from 1-nitro-n-hexane, there is obtained 2-nitro-2-n-amylpropanediol-1,3 (yield, 60%; melting point, 53-54°). During the heating (about 100° for 4 hours) of equimolal quantities of II by 30% NCHO and 25% NH₄OH, there are obtained 5-nitro-n-butyltetrahydro-1,3-oxazine (III) (liquid), and the hydrochloride of III (yield, 15%; melting point, 172-174°). III is produced also (yield of the hydrochloride is 10%) by boiling for 3 hours 0.1 mol of I, 0.3 mol of 30% HCHO and 0.1 mol of 25% NH₄OH; the picrate's melting point is 150-151°. The hydrochloride of III, during boiling with concentrated HCl in 80% alchool, hydrolyzes, separating HCHO and forming 2-nitro-2-oxymethylhexylamine (IV). The action of 30% HCHO on IV (the heating is over

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a hot water bath), again forms III; the hydro-chloride (melting point, 105-106). Analogously to III, there are formed from I, HCHO and methylamine (40% aqueous solution) or ethylamine (33% aqueous solution); 3-methyl-5-nitro-5-n-butyltetrahydrooxazine-1,3 (liquid); the hydrochloride (yield, 70%; melting point, 170-1720); 3-ethyl-5-nitro-5-n-butyltetrahydro-oxazine-1,3 (liquid); the hydrochloride (yield, 65%, melting point, 174-1760). Similarly, as described above, from 1 -nitro-n-hexane there are obtained: 2-nitro-2-n-amylpropanediol-1,3 (yield, 60%; melting point, 53-54%), the hydrochloride of 5-nitro-5-n-amyltetrahydro-1,3-oxazine (yield, 4%, melting point, 174-175%); the hydrochloride of 3-nitro-5-n-amyltetrahydro-1,3-oxazine (yield, 60%; melting point, 1910), and the hydrochloride of 3-ethyl-5-nitro-5-n-

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amyltetrahydro-1,3-oxazine (yield, 49%; melting point, 178-179°). Report XXIX; see RZhKhim, 1959, 11880. -- B. Szczycinski

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URBANSKI G-2 Catogory : Organic Chemistry. Synthetic Organic Chemistry 19353 Abs. Jour. : Ref. Zhur.-Khimiya No. 6, 1959 : Urbanski, T.; Chylinska, B. : Aliphatic Nitrocompounds. XXXI. Preparation of Author Institut. of Alcohols from Primary Nitroparaffins and Title orig. Pub. : Roczn. chem., 1957, 31, No 2, 695-698 : An improvement of the method of producing nitroalcohols by the action of formaldehyde on primary nitroparafrins (Wyler J.A., U.S. Patent 2 164 440, 1938; Fleser l.F., Gates M., J. Amer. Chem. Soc., 1946, 68, 2249). The improved method has made it possible to obtain purer products (without additional crystallization) with higher yields than hitherto. To a solution of 6.01 g paraformaldehyde in 10 ml n-butanol, added 0.5 ml (C₂H₃)₃N followed by 7.5 g nitroethanol. After completion of exothermic reaction and cooling to about 20° there is obtained 2-methyl-2-nitropropandiol--1,3, yield 92%, MP 135-139°. Analogously were prepared Card: 1/2

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Country Category	Poland	G-2	
Abs. Jour.	:	19353	
Institut.	: :		
Orig Pub.		·	
Abstract in°C): C2H n-C,H5, CH CH3, 81, 77 B. Szczy	: RR 1 C(NO ₂)CH ₂ OH (listing R, R', 5, CH ₂ OH, 8½, 55-57; n-C ₃ H ₇ , CH ₂ OH, 85, 46-48; n-C ₅ H ₁₁ , CH ₂ CH, 607-81. Communication XXX see RZhKh:	yield in %, MP H, 86, 79-81; C, 53-55; CH; im, 1959, 11737.	
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G-2 POLAND / Organic Chemistry -- Synthetic Organic Chemistry

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27502

Author : Guerne, D. and Urbanski, T.

: Aliphatic Nitro Compounds. XXXII. Synthesis and : Not given Inst Title

Cleavage of 3-benzyl-3Substituted Tetrahydro-

1,3-0xazines

Orig Pub: Roczniki Chem, 31, No 34, 855-867 (1957) (in Polish with English and Russian summaries)

Abstract: The reaction of $C_6H_5CH_2NH_2$ (I) and CH_2O (II) with $C_2H_5NO_2$ (III), $C_3H_7NO_2$ (IV), or $C_4H_9NO_2$ (V) has been used to prepare compounds of the type $OCH_2N(CH_2C_6H_5CH_2C(R)(NO_2)CH_2$ [sic] (VI), where $R = CH_3$ (VIa), C_2H_5 (VIb), or C_3H_7 (VIc); the previously synthesized VI ($R = CH_2OH$) (VId)

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Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27502

Abstract: and VI (R = H) (VIe) (See Communication XXXI, RZhKhim, 1959, 19353) were also prepared in the above-described way. VI on hydrolysis lose 1 mole of II and are converted to aminonitroal-cohola, C6H5CH2NHCH2C(R)(NO2)CH2OH (VII). When VII are heated with II in the presence of NaHCO3 VI are regenerated. The action of CH3ONa (VIII) on VII results in the elimination of 1 mole II and gives Naederivatives of aminonitrocompounds of the type C6H5CH2NHCH2Na-(R)NO2 (IX) which are converted to C6H5CH2NHCH2CH(R)NO2 (X) by acids and by CO2. When X are heated with II in 50% alcohol in the presence of NaHCO3 (pH 7.5), VI are regenerated. VII (R = CH2OH), prepared

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Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27502

Abstract: from VId, when reacted with VIII loses 2 mols II and is converted to X (R = H) (Xa). Xz adds 3 mols II and changes into VId. VId on reaction with VIII gives VIe, which on treatment with II and HCl cleaves to give X (R = CH2OH)(Xb). Xb is converted to Xa by the action of VIII, losing 1 mole II. O.1 mol of (CH2OH)₂C(R)NO₂ (XI) at ~200 is treated with 0.15 mol 30% II, 0.5 gm NaHCO₃, and 0.1 mol I, the mixture is heated for 2 hrs at 60°, and VI is obtained (R, the yield in %, mp oc are given in that order): CH3, 65, 66-68, 196-198; C2H5, 58, 68-70, 198-200; C3H7, 55, 46-48, 175-178. One gm of the HC or of free base VI is refluxed for 15 hrs in 50 ml conc H2SO4 or in

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Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27502

Abstract: 15% HCl) (alternatively, the refluxing may be stopped after 7-8 hrs) and evaporated under vacuum; the HC of the corresponding VII is isclated from the residue. One gm of VI in 100 ml 80% alcohol is treated with 4 ml conc HCl, the solution is refluxed 2 hrs, and the solvent is distilled off under reduced pressure; the following HC of VII were obtained by this procedure (R, the mp in °C, and the mp in °C of the dibenzoyl (for VII prepared from VIa-c) or the diacetyl or triacetyl derivative (for VII prepared from VId and VIe) are listed in that order): CH3, 102-104, 112-114; C2H5, 150-152, 105-107; C3H7, 135-137, 90-92; H, 150 (decomp), 115-118;

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Chemistry

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27502

Abstract: (decomp), acetyl derivative mp 193-195°. 0.01 mol XI in 3 ml water is treated with a stoichiometric amount of I and the mixture is heated to 50°; a solution of the organic layer in acetone is treated with an ether solution of HCl (gas); the HC of VII is obtained, yield 30-50%. 0.02 mol C6H5CH2NHCH2OH in 20 ml alcohol and 10 ml water is treated with 0.02 mol of III, IV, or V, the solution is heated to 60°, after 24 hrs the organic layer is separated, the aqueous layer is evaporated under vacuum, the residue is extracted with ether, the organic layer is added to the extract, and the HC of X is isolated from the solution, yield 20-50%. 0.01 mol CH3CH(NO2)-CH2OH or C2H5CH(NO2)CH2OH in 15 ml of a 1:2

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POLAND / Organic Chemistry--Synthetic Organic G-2 Chemistry

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27502

Abstract: CH₂OH, 177 (decomp), 58-100. 5 mmols of the HC of VII in 3 ml 30% alcohol, 8 mmols 27% II, and 0.01 mol NaHCO₃ are heated for some time at 100°; VI is obtained. One gm of the HC of VII in 200 ml ether is treated with a calculated amount of 2% VIII and the solution is filtered; the filtrate yields LX having no definite mp. One gm IX in aqueous solution on treatment with CO₂ or 2-HOC₆H₄COOH gives X (ether extraction); the following X have been prepared in this way (R, the mp in °C of the HC of X, and the mp in °C of the tosyl derivative of X are listed in that order): CH₃, 148-150, 82-84; C₂H₅, 150-151; 88-89; C₃H₇, 152-154, 110-112; HC of Xa mp 147°

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POLAND / Organic Chemistry--Synthetic Organic G-2

Chemistry

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27502

Abstract: water-alcohol mixture are gradually treated

with 0.01 mol I, the solution is heated to 50°, allowed to stand for a few hours, and processed as above; the yield of HC of X is about 30%.--

V. Skorodumov

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0-2 POLAND / Organic Chemistry -- Synthetic Organic Chemistry

Abs Jour: Ref Znur-Khimiya, No 8, 1959, 27503

Author : Guerne, D. and Urbanski, T.

: Aliphatic Nitro Compounds. XXXIII. Synthesis : Not given Inst Title

and Cleavage of 3-Cyclohexyl-Derivatives of Tetrahydro-1,3-Oxazine

Orig Pub: Roczniki Chem, 31, No 3, 869-878 (1957) (in Polish with English and Russian summaries)

Abstract: Continuing work reported earlier, the authors

have synthesized a number of 5-nitro-5-R-3-

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Chemistry

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27503

Abstract: (HOCH₂)₂C(R)NO₂ (TITE=c) in 30% CH₂O (IV). The hydrolysis of I with aqueous-alcoholic HCl leads to the elimination of CH₂O and the formation of C6H₁₁NHCH₂CH (R)NO₂ (Va-c). The action of IV on V regenerates the I. When V is reacted with CH₃-ONa (VI), IV is eliminated and the Na salt of the aminonitro compound is formed; treatment of these products with HCl gives C6H₁₁NHCH₂CH(R)-NO₂ (VII a-c). The action of IV on VI reconverts the latter to I. The nitrospamines, C6H₁₁N(NO)-CH₂CH(R)NO₂ (VIIIa-c) are converted back to the VII with HCl. V is synthesized by the action of II on III or from HOCH₂NHC6H₁₁ (IX) with

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